

## PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

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14 JUL 2004

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PCT

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing  
(day/month/year)

12.07.2004

Applicant's or agent's file reference  
SJA60268001

IMPORTANT NOTIFICATION

International application No.  
PCT/GB 03/2713

International filing date (day/month/year)  
24.06.2003

Priority date (day/month/year)  
26.06.2002

Applicant  
DISPERSE LIMITED et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international  
preliminary examining authority:



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT  
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SJA60268001	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/GB 03/02713	International filing date (day/month/year) 24.06.2003	Priority date (day/month/year) 26.06.2002
International Patent Classification (IPC) or both national classification and IPC A61K7/00		
Applicant DISPERSE LIMITED et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
- These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  23.01.2004	Date of completion of this report  12.07.2004
Name and mailing address of the international preliminary examining authority:   European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer  Giese, H-H  Telephone No. +49 89 2399-8488  

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/GB 03/02713

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17):*

**Description, Pages**

1-40 as originally filed

**Claims, Numbers**

1-23 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).  
☐ the language of publication of the international application (under Rule 48.3(b)).  
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority in written form.  
☐ furnished subsequently to this Authority in computer readable form.  
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:  
☐ the claims, Nos.:  
☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

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**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Yes: Claims	1-23
	No: Claims	
Inventive step (IS)	Yes: Claims	1-23
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-23
	No: Claims	

**2. Citations and explanations**

**see separate sheet**

**Re Item V**

**1. Cited documents**

The following documents (D) are referred to in this communication:

D1: "Placing and Offer for Subscription of up to 1,650,000 Ordinary Shares at 80 pence per ordinary share to raise up to £1.3 million" by disperse technologies plc for release on 19 March 2002.

D2: US 6 312 760 B

Document D1 (see citations in the international search report) discloses a biliquid foam dispersion composition for cosmetic and personal care products, for packaging ("smart" or tamper evident closure) which is "dry to the touch" comprising an oil-water-emulsion and a polymeric material but fails to describe particles.

Document D2 (see citations in the international search report) relates to biliquid foam surface coating which entrapped oils and gas. The entrapments also comprise perfumes, dye precursors which change colour upon rupture of a cap film but fails to describe particles.

**2. Novelty (Article 33(2) PCT)**

The present independent product claim 1 defines defined powder which comprises particles in which a biliquid foam has been entrapped within a matrix of a polymeric material. The present independent claim 7 defines a process for the preparation of a discrete powder. The present independent claims 18 to 23 define a fragrance composition or a deodorizing composition, a diaper or incontinence pad or feminine hygiene product, a fragrance device, a tamper proof seal, a hard surface cleaning product comprising the discrete powder.

With respect to the documents cited in the International search report claims 1 to 23 are novel (Article 33(2) PCT), because none of the documents explicitly mentions discrete powder of particles.

**3. Inventive Step (Article 33(3) PCT)**

The problem to be solved in present application was to prevent the evaporation of volatile substances such as perfumes or the degradation or chemical reaction of oil soluble species until the microcapsules are broken by the application of shear forces. The solution proposed by the present application is the encapsulation of biliquid foam in discrete particles forming a powder (see page 1, line 19-29 and

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page 3, lines 28, 29).

The same technical problem as defined in the present application appears to be solved by the disclosure in documents D1 or D2 (see col. 1, lines 20-28, col. 2, lines 30-36). However, these documents propose continuous films which have different areas of uses than powders.

The Applicant could show with additional technical data that the continuous films of D1 or D2 could be grinded to result in a sticky, not discrete and not dry granules. Therefore the disclosure in D1 or D2 does not lead the skilled man in the art to produce particles which form powders and which are dry, discrete and non-sticky.

Therefore, present claims involve an inventive step (Article 33(3) PCT).